

Union Calendar No. 2

110TH CONGRESS
1ST SESSION

H. R. 547

[Report No. 110–7]

To facilitate the development of markets for alternative fuels and Ultra Low Sulfur Diesel fuel through research, development, and demonstration and data collection.

IN THE HOUSE OF REPRESENTATIVES

JANUARY 18, 2007

Mr. GORDON of Tennessee introduced the following bill; which was referred to the Committee on Science and Technology

FEBRUARY 5, 2007

Additional sponsors: Mr. HALL of Texas, Mr. LAMPSON, Mr. INGLIS of South Carolina, Mr. COHEN, Ms. MATSUI, Ms. HOOLEY, Ms. GIFFORDS, Ms. JACKSON-LEE of Texas, Mr. CHANDLER, Mr. MCHUGH, Mr. CARNAHAN, Mr. MCCAUL of Texas, Mr. MELANCON, Mr. UDALL of Colorado, and Mr. LIPINSKI

FEBRUARY 5, 2007

Reported with amendments, committed to the Committee of the Whole House on the State of the Union, and ordered to be printed

[Strike out all after the enacting clause and insert the part printed in *italic*]

[For text of introduced bill, see copy of bill as introduced on January 18, 2007]

A BILL

To facilitate the development of markets for alternative fuels and Ultra Low Sulfur Diesel fuel through research, development, and demonstration and data collection.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 *This Act may be cited as the “Advanced Fuels Infra-*
5 *structure Research and Development Act”.*

6 **SEC. 2. FINDINGS.**

7 *The Congress finds that—*

8 *(1) in order to lessen United States dependence*
9 *on foreign sources of petroleum, and decrease demand*
10 *for petroleum in the transportation sector, the Nation*
11 *must diversify its fuel supply to include domestically*
12 *produced biofuels;*

13 *(2) while ethanol has been successful in the mar-*
14 *ket place as a fuel additive, newer biofuels may*
15 *present unique challenges that may render the fuels*
16 *incompatible with the current fuel transportation and*
17 *delivery infrastructure, placing the burden of costly*
18 *refurbishment and construction on fuel distributors*
19 *and retailers;*

20 *(3) chemical additives to the fuels may mitigate*
21 *the negative impacts of some biofuels on existing in-*
22 *frastructure and preclude costly retrofitting or instal-*
23 *lation of new biofuel compatible infrastructure and*
24 *transportation systems;*

1 (4) *in order to mitigate air pollution and com-*
 2 *ply with Federal mandates, Ultra Low Sulfur Diesel*
 3 *fuel was introduced into the marketplace in 2006;*

4 (5) *fuel labeled Ultra Low Sulfur Diesel may ac-*
 5 *cumulate more than the statutory limit of 15 parts*
 6 *per million of sulfur when transported through mul-*
 7 *tiple pipelines, tanks, and trucks to the final point of*
 8 *sale; and*

9 (6) *fuel distributors and retailers may inadvert-*
 10 *ently take delivery of fuel labeled Ultra Low Sulfur*
 11 *Diesel with more than 15 parts per million of sulfur*
 12 *without a practical means of verifying sulfur content.*

13 **SEC. 3. BIOFUEL INFRASTRUCTURE AND ADDITIVES RE-**
 14 **SEARCH AND DEVELOPMENT.**

15 *The Assistant Administrator of the Office of Research*
 16 *and Development of the Environmental Protection Agency*
 17 *(in this Act referred to as the “Assistant Administrator”),*
 18 *in consultation with the Secretary of Energy and the Na-*
 19 *tional Institute of Standards and Technology, shall carry*
 20 *out a program of research and development of materials to*
 21 *be added to biofuels to make them more compatible with*
 22 *existing infrastructure used to store and deliver petroleum-*
 23 *based fuels to the point of final sale. The program shall*
 24 *address—*

25 (1) *materials to prevent or mitigate—*

1 (A) corrosion of metal, plastic, rubber, cork,
 2 fiberglass, glues, or any other material used in
 3 pipes and storage tanks;

4 (B) dissolving of storage tank sediments;

5 (C) clogging of filters;

6 (D) contamination from water or other
 7 adulterants or pollutants;

8 (E) poor flow properties related to low tem-
 9 peratures;

10 (F) oxidative and thermal instability in
 11 long-term storage and use;

12 (G) microbial contamination; and

13 (H) problems associated with electrical con-
 14 ductivity;

15 (2) alternatives to conventional methods for re-
 16 furbishment and cleaning of gasoline and diesel tanks,
 17 including tank lining applications; and

18 (3) other problems as identified by the Assistant
 19 Administrator, in consultation with the Secretary of
 20 Energy and the National Institute of Standards and
 21 Technology.

22 **SEC. 4. SULFUR TESTING FOR DIESEL FUELS.**

23 (a) PROGRAM.—The Assistant Administrator, in con-
 24 sultation with the National Institute of Standards and
 25 Technology, shall carry out a research, development, and

1 *demonstration program on portable, low-cost, and accurate*
 2 *methods and technologies for testing of sulfur content in*
 3 *fuel, including Ultra Low Sulfur Diesel and Low Sulfur*
 4 *Diesel.*

5 (b) *SCHEDULE OF DEMONSTRATIONS.—Not later than*
 6 *1 year after the date of enactment of this Act, the Assistant*
 7 *Administrator shall begin demonstrations of technologies*
 8 *under subsection (a).*

9 **SEC. 5. STANDARD REFERENCE MATERIALS AND DATA**
 10 **BASE DEVELOPMENT.**

11 *Not later than 6 months after the date of enactment*
 12 *of this Act, the National Institute of Standards and Tech-*
 13 *nology shall develop a physical properties data base and*
 14 *standard reference materials for biofuels. Such data base*
 15 *and standard reference materials shall be maintained and*
 16 *updated as appropriate as additional biofuels become avail-*
 17 *able.*

18 **SEC. 6. AUTHORIZATION OF APPROPRIATIONS.**

19 *There are authorized to be appropriated to the Envi-*
 20 *ronmental Protection Agency \$10,000,000 for carrying out*
 21 *this Act.*

Amend the title so as to read: “A bill to facilitate the development of markets for biofuels and Ultra Low Sulfur Diesel fuel through research and development and data collection.”.

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